



PATENT  
Docket No.: 52769US006

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:

CLYDE D. CALHOUN, DAVID C.  
KOSKENMAKI, JAMES D. BERG and  
JENNIFER M. AAMODT

Serial No.:

Filed:

For: MICROSTRUCTURED  
POLYMER SUBSTRATE

Group Art Unit:

Examiner:

**INFORMATION DISCLOSURE STATEMENT**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, Virginia 22313-1450

Dear Sir:

In accordance with 37 C.F.R. Sections 1.97 and 1.98, Applicants wish to call to the Examiner's attention the attached references, which generally relate to the present invention.

The Examiner's attention is also directed to the following co-pending, co-assigned U.S. Patent application and the references cited therein: USSN 08/902,172, filed July 29, 1997 (parent application).

Due to the large volume of references contained in the related parent application, copies of PTO-1449 and PTO-892 forms showing those references are enclosed for the Examiner to initial, but copies of these references can be found in U.S. Serial No. 08/902,172. If the Examiner wishes the Applicants to provide additional copies of any or all references, the examiner is invited to contact the Applicants' undersigned representative at (651) 733-3169.

Applicants submit that the above references, whether taken alone or in combination with each other neither anticipate nor render obvious the present invention. Consideration of the foregoing in relation to the captioned application is respectfully requested.

Respectfully submitted,

A handwritten signature in cursive script that reads "Jean A. Lown".

JEAN A. LOWN  
Registration No. 48,428  
Attorney for Applicants

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Dated: *June 18, 2003*

**INFORMATION  
DISCLOSURE  
CITATION**

Atty. Docket No.: 52769USA4A

Serial No.: 08/902,172

Applicants(s): CALHOUN et al.

Filing Date: July 29, 1997

Group:

**U.S. PATENT DOCUMENTS**

Examiner Initial	Document Number	Date	Name	Class	SubClass	Filing Date If Appropriate
	3,027,595	04/03/62	Takai et al.	18	10	
	3,041,193	06/26/62	Hamway et al.	117	11	
	3,055,357	09/25/62	Redka	128	32	
	3,142,599	07/28/64	Chavannes	156	210	
	3,152,002	10/06/64	Wisotzky et al.	117	21	
	3,179,550	04/20/65	Friedman	161	62	
	3,192,589	07/06/65	Pearson	24	204	
	3,266,113	08/16/66	Flanagan, Jr.	24	204	
	3,312,583	04/04/67	Rochlis	161	62	
	3,312,586	04/04/67	Barlow	161	109	
	3,607,493	09/21/71	Anderson	156	83	
	3,709,752	01/09/73	Wistozky et al.	156	79	
	3,772,224	11/13/73	Marlin et al.	260	2.5	
	3,814,644	06/04/74	Anderson	156	78	
	3,849,156	11/19/74	Marlin et al.	117	10	
	3,973,059	08/03/76	Brown et al.	427	180	
	4,025,678	05/24/77	Frank	428	90	

**FOREIGN PATENT DOCUMENTS**

	Document Number	Date	Country	Class	SubClass	Translation	
						Yes	No
	1,208,056	10/07/70	Great Britain	B32b	5/18		
	57-25926	02/10/82	Japan (w/English language abstract)	B29D	27/00		
	WO 94/23610	10/27/94	PCT	A44B	18/00		

**OTHER DOCUMENTS (Including Authors, Title, Date, Pertinent Papers, etc.)**


**EXAMINER**
**Date Considered**

\*Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Based on Form PTO-FB-A820  
(Also form PTO-1449)

Patent and Trademark Office, U.S. Department of Commerce

**INFORMATION  
DISCLOSURE  
CITATION**
**Atty. Docket No.: 52769USA4A**
**Serial No.: 08/902,172**
**Applicants(s): CALHOUN et al.**
**Filing Date: July 29, 1997**
**Group:**
**U.S. PATENT DOCUMENTS**

Examiner Initial	Document Number	Date	Name	Class	SubClass	Filing Date If Appropriate
	4,048,269	09/13/77	Wisotzky et al.	264	25	
	4,056,593	11/01/77	de Navas Albareda	264	145	
	4,376,147	03/08/83	Byrne et al.	428	167	
	4,436,520	03/13/84	Lipko et al.	604	385	
	4,546,029	10/08/85	Cancio et al.	428	141	
	5,032,122	07/16/91	Noel et al.	604	391	
	5,097,570	03/24/92	Gershenson	24	452	
	5,116,563	05/26/92	Thomas et al.	264	167	
	5,230,851	07/27/93	Thomas	264	145	
	5,273,805	12/28/93	Calhoun et al.	428	156	
	5,318,741	06/07/94	Thomas	264	519	
	5,326,415	07/05/94	Thomas et al.	156	244.11	
	5,403,478	04/04/95	Brinkley	210	242.4	
	5,403,884	04/04/95	Perlinski	524	524	
	5,407,735	04/18/95	Fukuda et al.	428	224	
	5,416,958	05/23/95	Lilly et al.	26	29 R	
	5,462,765	10/31/95	Calhoun et al.	427	198	

**FOREIGN PATENT DOCUMENTS**

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						Yes	No

**OTHER DOCUMENTS (Including Authors, Title, Date, Pertinent Papers, etc.)**


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Patent and Trademark Office, U.S. Department of Commerce

<b>INFORMATION DISCLOSURE CITATION</b>	<b>Atty. Docket No.:</b> 52769USA4A	<b>Serial No.:</b> 08/902,172
	<b>Applicants(s):</b> CALHOUN et al.	
	<b>Filing Date:</b> July 29, 1997	<b>Group:</b>

**U.S. PATENT DOCUMENTS**

Examiner Initial	Document Number	Date	Name	Class	SubClass	Filing Date If Appropriate
	3,950,582	04/13/76	Keuchel			
	4,183,889	01/15/80	Brendel			

**FOREIGN PATENT DOCUMENTS**

	Document Number	Date	Country	Class	SubClass	Translation	
						Yes	No
	1,169,621	11/05/69	Great Britain			X	
	2 216 556 A	10/11/89	Great Britain			X	
	1 964 736	07/09/70	Germany				X

**OTHER DOCUMENTS (Including Authors, Title, Date, Pertinent Papers, etc.)**


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Patent and Trademark Office, U.S. Department of Commerce



<b>Notice of References Cited</b>				Application No. <b>08/902,172</b>		Applicant(s) <b>Calhoun et al.</b>	
				Examiner <b>Terrel Morris</b>		Group Art Unit <b>1771</b>	

  

U.S. PATENT DOCUMENTS						
	DOCUMENT NO.	DATE	NAME		CLASS	SUBCLASS
A	3,284,274	11/8/66	Hulslander et al.		428	91
B	3,524,791	8/18/70	Bethman et al.		428	91
C	4,636,417	1/13/87	Rasmussen		428	91
D	4,440,709	4/3/84	Rasmussen		264	145
E	4,422,837	12/27/83	Rasmussen		425	289
F	4,189,336	2/19/80	Hutflesz		156	72
G	4,076,874	2/28/78	Giovanelli et al.		428	86
H	3,870,778	3/11/75	Steel		264	164
I	3,693,851	9/26/72	Yazawa		225	3
J						
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N	0 334 574	9/27/89	Europe	Knight	----	----
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NON-PATENT DOCUMENTS	
	DOCUMENT (Including Author, Title, Source, and Pertinent Pages)
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**Notice of References Cited**Application No.  
**08/902,172**

Applicant(s)

**Calhoun et al.**

Examiner

**Cheryl Juska**

Group Art Unit

**1771**

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**U.S. PATENT DOCUMENTS**

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	DOCUMENT NO.	DATE	COUNTRY	NAME	CLASS	SUBCLASS
N	2 030 102	10-30-70	France	Ichinohe et al.	---	---
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**NON-PATENT DOCUMENTS**

	DOCUMENT (Including Author, Title, Source, and Pertinent Pages)	DATE
U	DERWENT Database entry for FR 2 030 102.	
V	AltaVista Translation of text from FR 2 030 102.	
W		
X		

**Notice of References Cited**Application No.  
08/902,172

Applicant(s)

Calhoun et al.

Examiner

Cheryl Juska

Group Art Unit  
1771

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A	3,325,845	6/1967	Sawkiw	428	400
B	3,979,532	9/1976	Muck et al.	428	91
C	4,180,606	12/1979	Hance et al.	428	88
D	4,318,949	3/1982	Okamoto et al.	428	91
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	DOCUMENT NO.	DATE	COUNTRY	NAME	CLASS	SUBCLASS
N	1,169,621	11/1969	Great Britian	Yamanashi Kasei Kogyo	—	—
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**NON-PATENT DOCUMENTS**

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U	English language translation of FR 2030102.	12/1968
V	Fairchild's Dictionary of Textiles, 7th ed., definition of FIBER, page 214.	1996
W		
X		

<b>Notice of References Cited</b>	Applicant/Patent <b>Calhoun et al.</b>	Application/Control No. <b>08/902,172</b>	
	Examiner <b>Cheryl Juska</b>	Art Unit <b>1771</b>	Page 1 of 1

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A	4,612,229 -	9/1986	Vittone et al.	428	155
B	4,778,634 -	10/1998	Douglas	264	22
C	4,815,714 -	3/1989	Douglas	264	22
D	4,832,886 -	5/1989	Douglas	264	41
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#### NON-PATENT DOCUMENTS

	Include, as applicable: Author, Title, Date, Publisher, Edition or Volume, Pertinent Pages
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<sup>1</sup> A copy of this reference is not being furnished with this Office action. See MPEP § 707.05(a).

<sup>1</sup> Dates in MM-YYYY format are publication dates.

<sup>2</sup> Classifications may be U.S. or foreign.

**Notice of References Cited**

Application/Control No.

08/902,172

Applicant(s)/Patent Under

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CALHOUN ET AL.

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Art Unit

1771

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**U.S. PATENT DOCUMENTS**

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	Classification
<input checked="" type="checkbox"/>	A	US-4,186,239	01-1980	Mize et al.	428/399
<input checked="" type="checkbox"/>	B	US-4,259,393	03-1981	Marco, Francis W.	442/196
<input checked="" type="checkbox"/>	C	US-4,316,928	02-1982	Otto, Wolfgang K. F.	442/195
<input checked="" type="checkbox"/>	D	US-4,331,724	05-1982	Su, Tien-Kuei	428/91
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	F	US-			
	G	US-			
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	J	US-			
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